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* * * * * * * * *   Welcome to STN International   * * * * * * * * * *

 NEWS 1   Web Page for STN Seminar Schedule – N. America
 NEWS 2 OCT 02   CA/CAplus enhanced with pre-1907 records from Chemisches
                    Zentralblatt
 NEWS 3 OCT 19   BEILSTEIN updated with new compounds
 NEWS 4 NOV 15   Derwent Indian patent publication number format enhanced
 NEWS 5 NOV 19   WPIX enhanced with XML display format
 NEWS 6 NOV 30   ICSD reloaded with enhancements
 NEWS 7 DEC 04   LINPADOCDB now available on STN
 NEWS 8 DEC 14   BEILSTEIN pricing structure to change
 NEWS 9 DEC 17   USPATOLD added to additional database clusters
 NEWS 10 DEC 17   IMSDRUGCONF removed from database clusters and STN
 NEWS 11 DEC 17   DGENE now includes more than 10 million sequences
 NEWS 12 DEC 17   TOXCENTER enhanced with 2008 MeSH vocabulary in
                    MEDLINE segment
 NEWS 13 DEC 17   MEDLINE and LMEDLINE updated with 2008 MeSH vocabulary
 NEWS 14 DEC 17   CA/CAplus enhanced with new custom IPC display formats
 NEWS 15 DEC 17   STN Viewer enhanced with full-text patent content
                    from USPATOLD
 NEWS 16 JAN 02   STN pricing information for 2008 now available
 NEWS 17 JAN 16   CAS patent coverage enhanced to include exemplified
                    prophetic substances
 NEWS 18 JAN 28   USPATFULL, USPAT2, and USPATOLD enhanced with new
                    custom IPC display formats
 NEWS 19 JAN 28   MARPAT searching enhanced
 NEWS 20 JAN 28   USGENE now provides USPTO sequence data within 3 days
                    of publication
 NEWS 21 JAN 28   TOXCENTER enhanced with reloaded MEDLINE segment
 NEWS 22 JAN 28   MEDLINE and LMEDLINE reloaded with enhancements
 NEWS 23 FEB 08   STN Express, Version 8.3, now available
 NEWS 24 FEB 20   PCI now available as a replacement to DPCI
 NEWS 25 FEB 25   IFIREF reloaded with enhancements
 NEWS 26 FEB 25   IMSPRODUCT reloaded with enhancements
 NEWS 27 FEB 29   WPINDEX/WPIDS/WPIX enhanced with ECLA and current
                    U.S. National Patent Classification

 NEWS EXPRESS FEBRUARY 08 CURRENT WINDOWS VERSION IS V8.3,
              AND CURRENT DISCOVER FILE IS DATED 20 FEBRUARY 2008

 NEWS HOURS   STN Operating Hours Plus Help Desk Availability
 NEWS LOGIN   Welcome Banner and News Items
 NEWS IPC8   For general information regarding STN implementation of IPC 8

Enter NEWS followed by the item number or name to see news on that
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* * * * * * * * * * * * * * STN Columbus * * * * * * * * * * * * * * * *

FILE 'HOME' ENTERED AT 16:54:51 ON 04 MAR 2008

=> file reg
COST IN U.S. DOLLARS   SINCE FILE   TOTAL
                                                ENTRY   SESSION
FULL ESTIMATED COST   0.21   0.21

FILE 'REGISTRY' ENTERED AT 16:54:56 ON 04 MAR 2008
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STRUCTURE FILE UPDATES: 3 MAR 2008 HIGHEST RN 1006431-93-1
DICTIONARY FILE UPDATES: 3 MAR 2008 HIGHEST RN 1006431-93-1

New CAS Information Use Policies, enter HELP USAGETERMS for details.

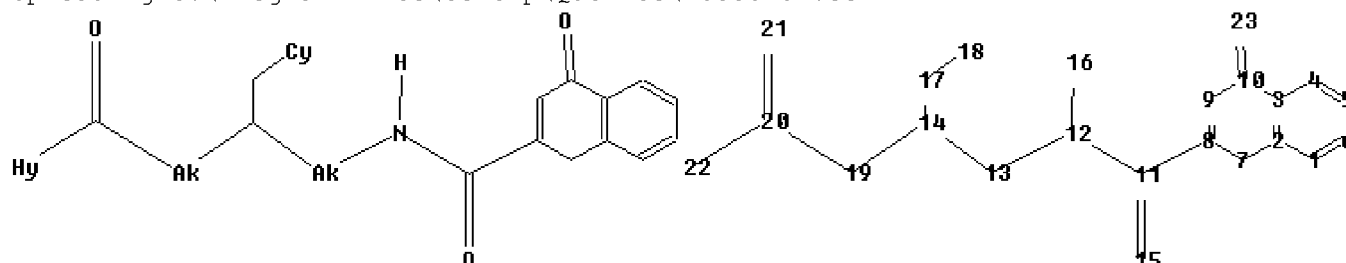TSCA INFORMATION NOW CURRENT THROUGH January 9, 2008.

   Please note that search-term pricing does apply when
   conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and
predicted properties as well as tags indicating availability of
experimental property data in the original document. For information
on property searching in REGISTRY, refer to:

http://www.cas.org/support/stngen/stndoc/properties.html

=>
Uploading C:\Program Files\Stnexp\Queries\10550267.str

chain nodes :
11 12 13 14 15 16 17 18 19 20 21 22 23
ring nodes :
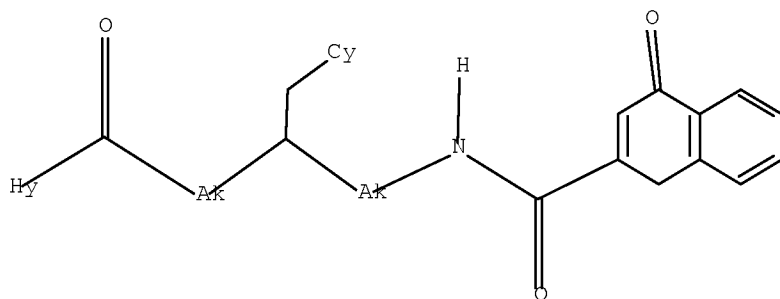1 2 3 4 5 6 7 8 9 10

```
chain bonds :
8-11   10-23   11-12   11-15   12-13   12-16   13-14   14-17   14-19   17-18   19-20   20-21
20-22
ring bonds :
1-2   1-6   2-3   2-7   3-4   3-10   4-5   5-6   7-8   8-9   9-10
exact/norm bonds :
10-23   11-12   11-15   12-13   13-14   14-19   17-18   19-20   20-21   20-22
exact bonds :
2-7   3-10   7-8   8-9   8-11   9-10   12-16   14-17
normalized bonds :
1-2   1-6   2-3   3-4   4-5   5-6
isolated ring systems :
containing 1 :


Match level :
1:Atom   2:Atom   3:Atom   4:Atom   5:Atom   6:Atom   7:Atom   8:Atom   9:Atom   10:Atom
11:CLASS   12:CLASS   13:CLASS   14:CLASS   15:CLASS   16:CLASS   17:CLASS   18:Atom
19:CLASS   20:CLASS
21:CLASS   22:Atom   23:CLASS




L1          STRUCTURE UPLOADED

=> d l1
L1 HAS NO ANSWERS
L1                  STR
```
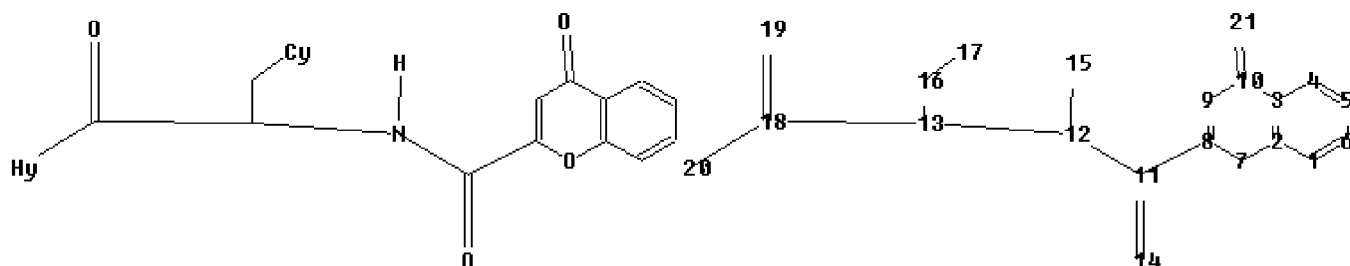


```
Structure attributes must be viewed using STN Express query preparation.


=> s l1 full
FULL SEARCH INITIATED 16:55:31 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED -     9839 TO ITERATE

100.0% PROCESSED     9839 ITERATIONS                                    0 ANSWERS
SEARCH TIME: 00.00.01

L2              0 SEA SSS FUL L1

=>
Uploading C:\Program Files\Stnexp\Queries\10550267noalk.str
```

```
chain nodes :
11  12  13  14  15  16  17  18  19  20  21
ring nodes :
1  2  3  4  5  6  7  8  9  10
chain bonds :
8-11  10-21  11-12  11-14  12-15  12-13  13-16  13-18  16-17  18-20  18-19
ring bonds :
1-2  1-6  2-3  2-7  3-4  3-10  4-5  5-6  7-8  8-9  9-10
exact/norm bonds :
10-21  11-12  11-14  12-13  16-17  18-20  18-19
exact bonds :
2-7  3-10  7-8  8-9  8-11  9-10  12-15  13-16  13-18
normalized bonds :
1-2  1-6  2-3  3-4  4-5  5-6
isolated ring systems :
containing 1 :


Match level :
1:Atom  2:Atom  3:Atom  4:Atom  5:Atom  6:Atom  7:Atom  8:Atom  9:Atom  10:Atom
11:CLASS  12:CLASS  13:CLASS  14:CLASS  15:CLASS  16:CLASS  17:Atom  18:CLASS
19:CLASS  20:Atom  21:CLASS
```
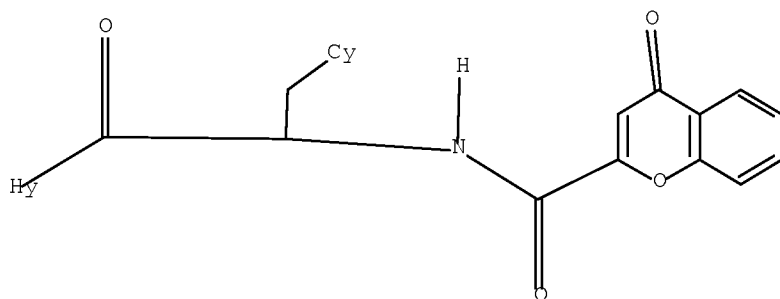
```
L3        STRUCTURE UPLOADED

=> d l3
L3 HAS NO ANSWERS
L3                  STR
```



```
Structure attributes must be viewed using STN Express query preparation.
```

```
=> s l3 full
FULL SEARCH INITIATED 16:57:40 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED -      472 TO ITERATE

100.0% PROCESSED     472 ITERATIONS                          8 ANSWERS
SEARCH TIME: 00.00.01


L4            8 SEA SSS FUL L3

=> file caplus
COST IN U.S. DOLLARS                             SINCE FILE     TOTAL
                                                   ENTRY      SESSION
FULL ESTIMATED COST                               358.10      358.31


FILE 'CAPLUS' ENTERED AT 16:57:43 ON 04 MAR 2008
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FILE LAST UPDATED: 3 Mar 2008  (20080303/ED)

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=> s l4 full
L5            1 L4

=> d ibib abs hitstr

L5   ANSWER 1 OF 1  CAPLUS  COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER:         2004:772652  CAPLUS  Full-text
DOCUMENT NUMBER:          141:261061
TITLE:                    Preparation of substituted piperidine and piperazine
                          amino acid derivatives as melanocortin-4 receptor
                          modulators
INVENTOR(S):              Soeberdt, Michael; Weyermann, Philipp; Von Sprecher,
                          Andreas
PATENT ASSIGNEE(S):       Myocontract Ltd., Switz.
SOURCE:                   Eur. Pat. Appl., 66 pp.
                          CODEN: EPXXDW
DOCUMENT TYPE:            Patent
LANGUAGE:                 English
FAMILY ACC. NUM. COUNT:   1
PATENT INFORMATION:
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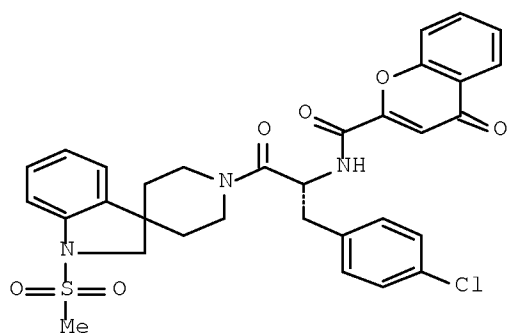
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PATENT NO.              KIND   DATE        APPLICATION NO.           DATE
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EP 1460073              A1     20040922    EP 2003-6254              20030320
     R:  AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
         IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK
AU 2004222095           A1     20040930    AU 2004-222095            20040319
AU 2004222095           B2     20070517
CA 2519442              A1     20040930    CA 2004-2519442           20040319
WO 2004083209           A1     20040930    WO 2004-EP2907            20040319
     W:  AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH,
         CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD,
         GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC,
         LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI,
         NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY,
         TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW
     RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ,
         BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE,
         ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI,
         SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN,
         TD, TG
EP 1603912              A1     20051214    EP 2004-721899            20040319
EP 1603912              B1     20070718
     R:  AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
         IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, PL, SK
JP 2006520362           T      20060907    JP 2006-504754            20040319
AT 367391               T      20070815    AT 2004-721899            20040319
US 2006241123           A1     20061026    US 2006-550267            20060213
PRIORITY APPLN. INFO.:                     EP 2003-6254         A    20030320
                                           WO 2004-EP2907       A    20040319
OTHER SOURCE(S):        MARPAT 141:261061
GI
```


I

AB   The invention relates to novel substituted piperidine and piperazine derivs.
     A-CO(CH2)mCH(CH2-Ar)(CH2)nNHCOR1 [Ar is (un)substituted aryl or heteroaryl; R1
     is (un)substituted chromone-2-yl, 3-aminochromone-2-yl or 4-oxoquinolin-3-yl;
     A is substituted 1-piperidinyl or 1-piperazinyl; m, n are 0-2] or their
     pharmaceutically-acceptable salts for use as melanocortin-4 receptor (MC-4R)
     modulators. MC-4R agonists of the invention can be used for the treatment of
     disorders and diseases such as obesity, diabetes, and sexual dysfunction,
     whereas the MC-4R antagonists are useful for the treatment of cancer cachexia,
     muscle wasting, anorexia, anxiety, depression, etc. Thus, I was prepared via

coupling reactions of Boc-D-4-chlorophenylalanine (Boc = tert-butoxycarbonyl),
1,2-dihydro-1-(methylsulfonyl)spiro[3H-indole-3,4'-piperidine]
monohydrochloride and chromone-2-carboxylic acid.

IT   756878-03-2P 756878-10-1P 756878-13-4P
       756878-16-7P 756878-18-9P 756878-20-3P
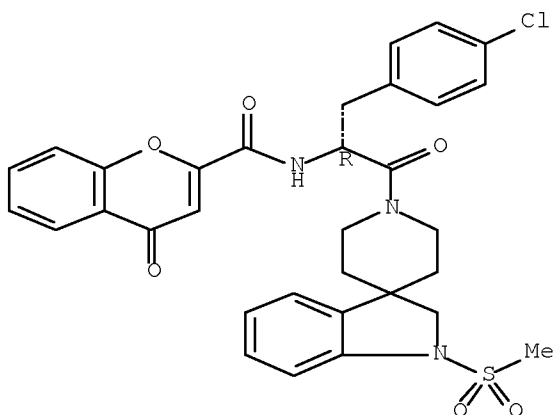   756878-26-9P 756878-28-1P

       RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU
       (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES
       (Uses)
          (preparation of piperidine and piperazine amino acid derivs. as
          melanocortin-4 receptor modulators)

RN   756878-03-2   CAPLUS
CN   4H-1-Benzopyran-2-carboxamide, N-[(1R)-1-[(4-chlorophenyl)methyl]-2-[1,2-
     dihydro-1-(methylsulfonyl)spiro[3H-indole-3,4'-piperidin]-1'-yl]-2-
     oxoethyl]-4-oxo-   (CA INDEX NAME)

Absolute stereochemistry.

RN   756878-10-1   CAPLUS
CN   4H-1-Benzopyran-2-carboxamide, N-[(1S)-1-[(4-chlorophenyl)methyl]-2-[1,2-
     dihydro-1-(methylsulfonyl)spiro[3H-indole-3,4'-piperidin]-1'-yl]-2-
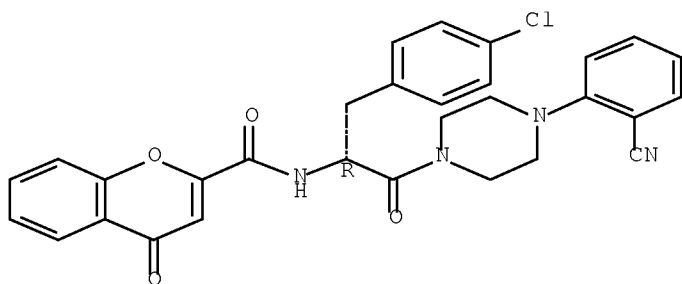   oxoethyl]-4-oxo-   (CA INDEX NAME)

Absolute stereochemistry.

RN   756878-13-4 CAPLUS
CN   4H-1-Benzopyran-2-carboxamide, N-[(1R)-1-[(4-chlorophenyl)methyl]-2-[4-(2-
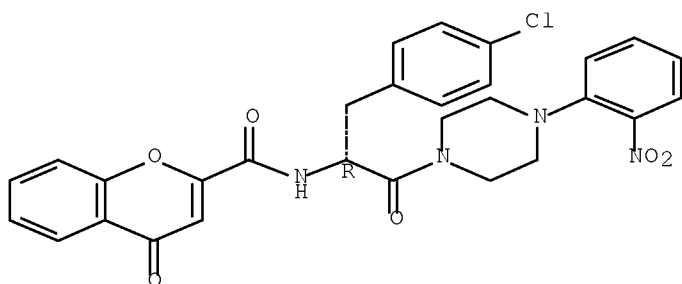   cyanophenyl)-1-piperazinyl]-2-oxoethyl]-4-oxo-   (CA INDEX NAME)

Absolute stereochemistry.

RN   756878-16-7 CAPLUS
CN   4H-1-Benzopyran-2-carboxamide, N-[(1R)-1-[(4-chlorophenyl)methyl]-2-[4-(2-
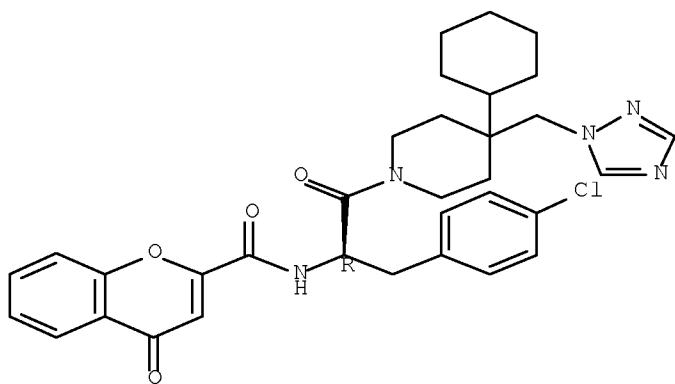   nitrophenyl)-1-piperazinyl]-2-oxoethyl]-4-oxo-   (CA INDEX NAME)

Absolute stereochemistry.

RN   756878-18-9 CAPLUS
CN   4H-1-Benzopyran-2-carboxamide, N-[(1R)-1-[(4-chlorophenyl)methyl]-2-[4-
      cyclohexyl-4-(1H-1,2,4-triazol-1-ylmethyl)-1-piperidinyl]-2-oxoethyl]-4-
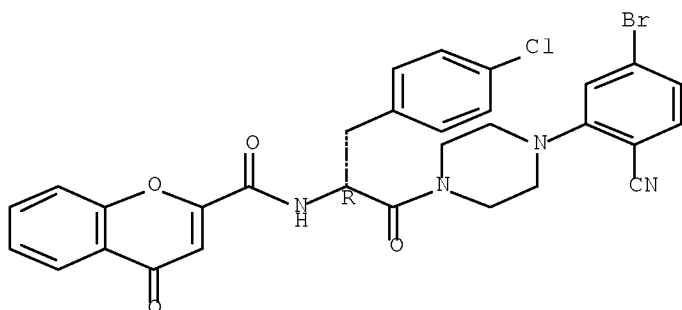   oxo-   (CA INDEX NAME)

Absolute stereochemistry.

RN   756878-20-3 CAPLUS
CN   4H-1-Benzopyran-2-carboxamide, N-[(1R)-2-[4-(5-bromo-2-cyanophenyl)-1-
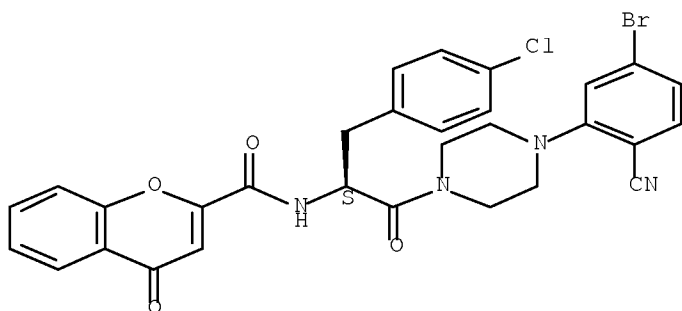   piperazinyl]-1-[(4-chlorophenyl)methyl]-2-oxoethyl]-4-oxo- (CA INDEX
        NAME)

Absolute stereochemistry.

RN   756878-26-9 CAPLUS
CN   4H-1-Benzopyran-2-carboxamide, N-[(1S)-2-[4-(5-bromo-2-cyanophenyl)-1-
        piperazinyl]-1-[(4-chlorophenyl)methyl]-2-oxoethyl]-4-oxo- (CA INDEX
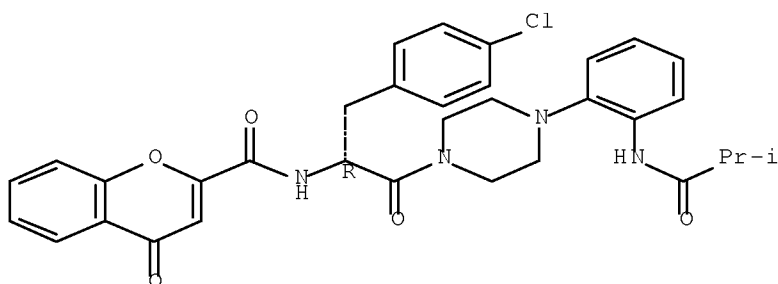   NAME)

Absolute stereochemistry.

RN   756878-28-1 CAPLUS
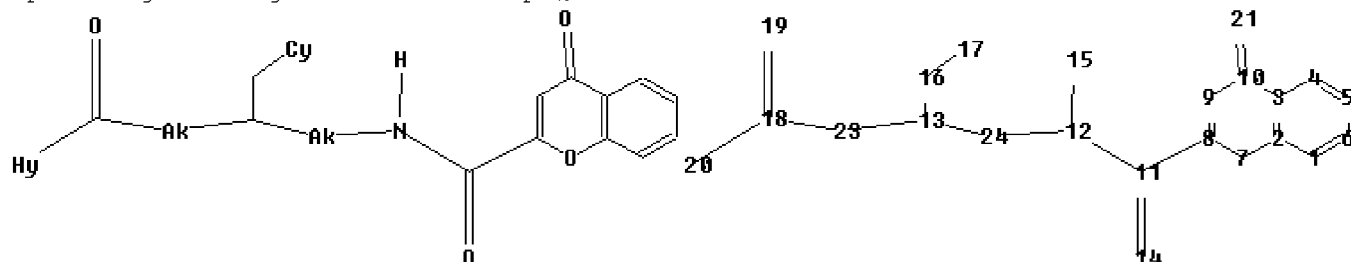CN   4H-1-Benzopyran-2-carboxamide, N-[(1R)-1-[(4-chlorophenyl)methyl]-2-[4-[2-
       [(2-methyl-1-oxopropyl)amino]phenyl]-1-piperazinyl]-2-oxoethyl]-4-oxo-
       (CA INDEX NAME)

Absolute stereochemistry.

=>
Uploading C:\Program Files\Stnexp\Queries\10550267alk.str

chain nodes :
11 12 13 14 15 16 17 18 19 20 21 23 24
ring nodes :
1   2   3   4   5   6   7   8   9   10
chain bonds :
8-11   10-21   11-12   11-14   12-15   12-24   13-16   13-24   13-23   16-17   18-20   18-19
18-23
ring bonds :
1-2   1-6   2-3   2-7   3-4   3-10   4-5   5-6   7-8   8-9   9-10
exact/norm bonds :
10-21   11-12   11-14   12-24   13-24   13-23   16-17   18-20   18-19   18-23
exact bonds :
2-7   3-10   7-8   8-9   8-11   9-10   12-15   13-16
normalized bonds :
1-2   1-6   2-3   3-4   4-5   5-6
isolated ring systems :
containing 1 :

Match level :
1:Atom   2:Atom   3:Atom   4:Atom   5:Atom   6:Atom   7:Atom   8:Atom   9:Atom   10:Atom
11:CLASS   12:CLASS   13:CLASS   14:CLASS   15:CLASS   16:CLASS   17:Atom   18:CLASS
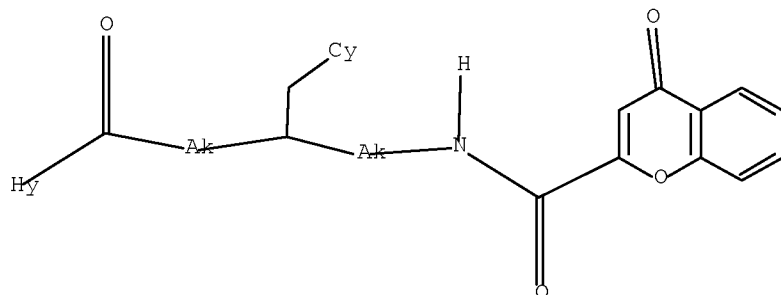19:CLASS   20:Atom   21:CLASS
23:CLASS   24:CLASS

L6   STRUCTURE UPLOADED

=> d l6
L6 HAS NO ANSWERS
L6   STR

Structure attributes must be viewed using STN Express query preparation.

=> s l6 full
    REGIstRY INITIATED
Substance data SEARCH and crossover from CAS REGISTRY in progress...
Use DISPLAY HITSTR (or FHITSTR) to directly view retrieved structures.

FULL SEARCH INITIATED 16:59:50 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED -   5640 TO ITERATE

100.0% PROCESSED   5640 ITERATIONS   0 ANSWERS
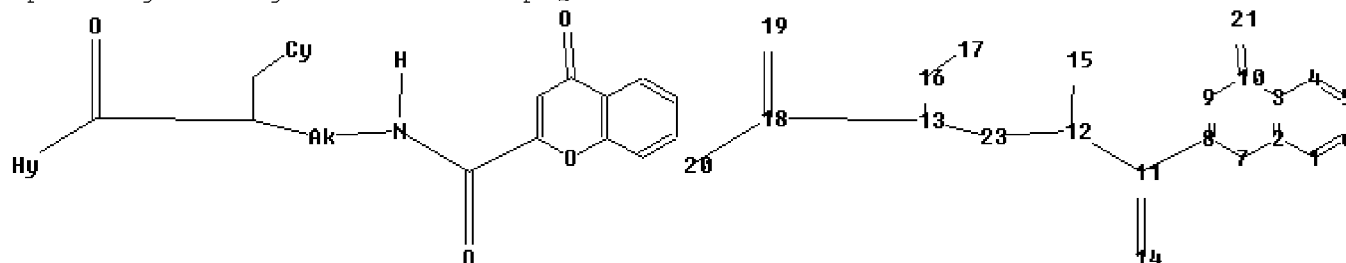SEARCH TIME: 00.00.01

L7   0 SEA SSS FUL L6

L8   0 L7

=>
Uploading C:\Program Files\Stnexp\Queries\10550267onealk.str

```
chain nodes :
11  12  13  14  15  16  17  18  19  20  21  23
ring nodes :
1  2  3  4  5  6  7  8  9  10
chain bonds :
8-11  10-21  11-12  11-14  12-15  12-23  13-16  13-23  13-18  16-17  18-20  18-19

ring bonds :
1-2  1-6  2-3  2-7  3-4  3-10  4-5  5-6  7-8  8-9  9-10
exact/norm bonds :
10-21  11-12  11-14  12-23  13-23  16-17  18-20  18-19
exact bonds :
2-7  3-10  7-8  8-9  8-11  9-10  12-15  13-16  13-18
normalized bonds :
1-2  1-6  2-3  3-4  4-5  5-6
isolated ring systems :
containing 1 :


Match level :
1:Atom   2:Atom   3:Atom   4:Atom   5:Atom   6:Atom   7:Atom   8:Atom   9:Atom   10:Atom
11:CLASS   12:CLASS   13:CLASS   14:CLASS   15:CLASS   16:CLASS   17:Atom   18:CLASS
19:CLASS   20:Atom   21:CLASS
23:CLASS




L9       STRUCTURE UPLOADED

=> d l9
L9 HAS NO ANSWERS
L9                  STR
```
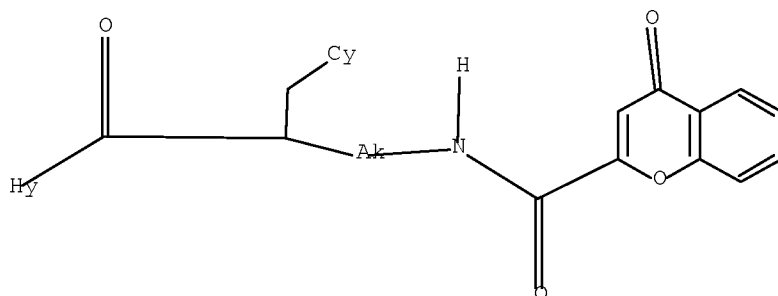


```
Structure attributes must be viewed using STN Express query preparation.


=> s l9 full
   REGIstRY INITIATED
Substance data SEARCH and crossover from CAS REGISTRY in progress...
Use DISPLAY HITSTR (or FHITSTR) to directly view retrieved structures.
```

FULL SEARCH INITIATED 17:01:26 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED -   5640 TO ITERATE

100.0% PROCESSED   5640 ITERATIONS   0 ANSWERS
SEARCH TIME: 00.00.01

L10   0 SEA SSS FUL L9

L11   0 L10

=> file reg
COST IN U.S. DOLLARS   SINCE FILE   TOTAL
                                                 ENTRY   SESSION
FULL ESTIMATED COST   0.48   724.32

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)   SINCE FILE   TOTAL
                                                 ENTRY   SESSION
CA SUBSCRIBER PRICE   0.00   -0.80

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DICTIONARY FILE UPDATES: 3 MAR 2008 HIGHEST RN 1006431-93-1

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http://www.cas.org/support/stngen/stndoc/properties.html

=> file reg
COST IN U.S. DOLLARS   SINCE FILE   TOTAL
                                                 ENTRY   SESSION
FULL ESTIMATED COST   0.92   725.24

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)   SINCE FILE   TOTAL
                                                 ENTRY   SESSION
CA SUBSCRIBER PRICE   0.00   -0.80

FILE 'REGISTRY' ENTERED AT 17:02:36 ON 04 MAR 2008

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DICTIONARY FILE UPDATES: 3 MAR 2008 HIGHEST RN 1006431-93-1

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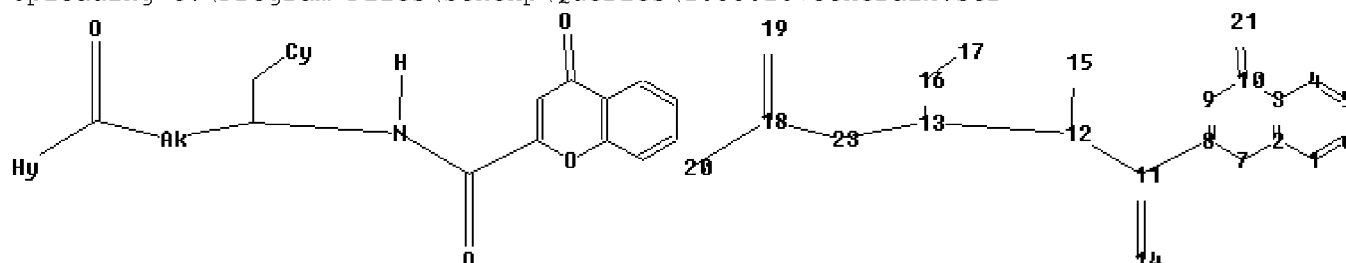TSCA INFORMATION NOW CURRENT THROUGH January 9, 2008.

   Please note that search-term pricing does apply when
   conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and
predicted properties as well as tags indicating availability of
experimental property data in the original document. For information
on property searching in REGISTRY, refer to:

http://www.cas.org/support/stngen/stndoc/properties.html

=>
Uploading C:\Program Files\Stnexp\Queries\10550267otheralk.str

chain nodes :
11 12 13 14 15 16 17 18 19 20 21 23
ring nodes :
1 2 3 4 5 6 7 8 9 10
chain bonds :
8-11 10-21 11-12 11-14 12-15 12-13 13-16 13-23 16-17 18-20 18-19 18-23

ring bonds :
1-2 1-6 2-3 2-7 3-4 3-10 4-5 5-6 7-8 8-9 9-10
exact/norm bonds :
10-21 11-12 11-14 12-13 13-23 16-17 18-20 18-19 18-23
exact bonds :
2-7 3-10 7-8 8-9 8-11 9-10 12-15 13-16
normalized bonds :
1-2 1-6 2-3 3-4 4-5 5-6
isolated ring systems :
containing 1 :

Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom
11:CLASS 12:CLASS 13:CLASS 14:CLASS 15:CLASS 16:CLASS 17:Atom 18:CLASS
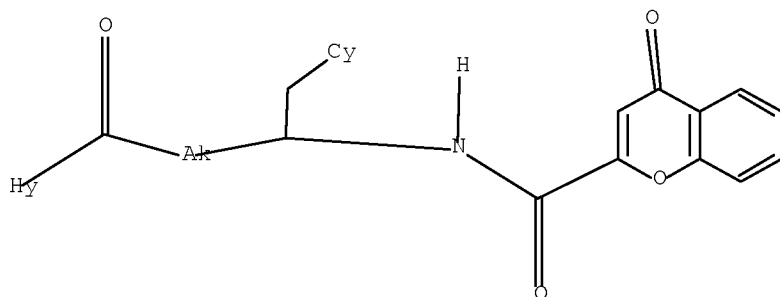19:CLASS 20:Atom 21:CLASS

L12   STRUCTURE UPLOADED

=> d l12
L12 HAS NO ANSWERS
L12   STR

Structure attributes must be viewed using STN Express query preparation.

=> s l12 full
FULL SEARCH INITIATED 17:04:23 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED -   2302 TO ITERATE

100.0% PROCESSED   2302 ITERATIONS   2 ANSWERS
SEARCH TIME: 00.00.01

L13   2 SEA SSS FUL L12

=> file caplus
COST IN U.S. DOLLARS   SINCE FILE   TOTAL
                                              ENTRY   SESSION
FULL ESTIMATED COST   179.28   904.52

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)   SINCE FILE   TOTAL
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CA SUBSCRIBER PRICE   0.00   -0.80

FILE 'CAPLUS' ENTERED AT 17:04:29 ON 04 MAR 2008
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=> s l13 full
L14           1 L13

=> d ibib abs hitstr
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L14 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 2004:772652 CAPLUS Full-text
DOCUMENT NUMBER: 141:261061
TITLE: Preparation of substituted piperidine and piperazine
                        amino acid derivatives as melanocortin-4 receptor
                        modulators
INVENTOR(S):   Soeberdt, Michael; Weyermann, Philipp; Von Sprecher,
                        Andreas
PATENT ASSIGNEE(S):   Myocontract Ltd., Switz.
SOURCE: Eur. Pat. Appl., 66 pp.
                        CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

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     PATENT NO.            KIND   DATE        APPLICATION NO.        DATE
     --------------        ----   --------    --------------------   --------
     EP 1460073            A1     20040922    EP 2003-6254            20030320
         R:  AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
             IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK
     AU 2004222095         A1     20040930    AU 2004-222095          20040319
     AU 2004222095         B2     20070517
     CA 2519442            A1     20040930    CA 2004-2519442         20040319
     WO 2004083209         A1     20040930    WO 2004-EP2907          20040319
         W:  AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH,
             CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD,
             GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC,
             LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI,
             NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY,
             TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW
         RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ,
             BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE,
             ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI,
             SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN,
             TD, TG
     EP 1603912            A1     20051214    EP 2004-721899          20040319
     EP 1603912            B1     20070718
         R:  AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
             IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, PL, SK
     JP 2006520362         T      20060907    JP 2006-504754          20040319
     AT 367391             T      20070815    AT 2004-721899          20040319
     US 2006241123         A1     20061026    US 2006-550267          20060213
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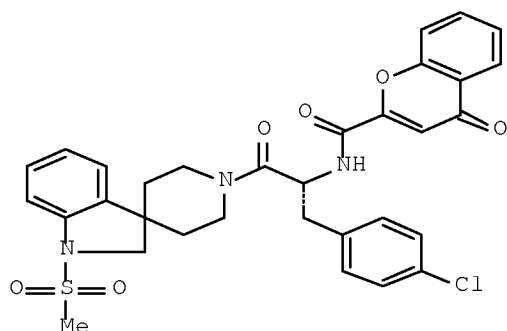
I

AB   The invention relates to novel substituted piperidine and piperazine derivs.
        A-CO(CH2)mCH(CH2-Ar)(CH2)nNHCOR1 [Ar is (un)substituted aryl or heteroaryl; R1
        is (un)substituted chromone-2-yl, 3-aminochromone-2-yl or 4-oxoquinolin-3-yl;
        A is substituted 1-piperidinyl or 1-piperazinyl; m, n are 0-2] or their
        pharmaceutically-acceptable salts for use as melanocortin-4 receptor (MC-4R)
        modulators. MC-4R agonists of the invention can be used for the treatment of
        disorders and diseases such as obesity, diabetes, and sexual dysfunction,
        whereas the MC-4R antagonists are useful for the treatment of cancer cachexia,
        muscle wasting, anorexia, anxiety, depression, etc. Thus, I was prepared via
        coupling reactions of Boc-D-4-chlorophenylalanine (Boc = tert-butoxycarbonyl),
        1,2-dihydro-1-(methylsulfonyl)spiro[3H-indole-3,4'-piperidine]
        monohydrochloride and chromone-2-carboxylic acid.
IT   756878-22-5P 756878-24-7P
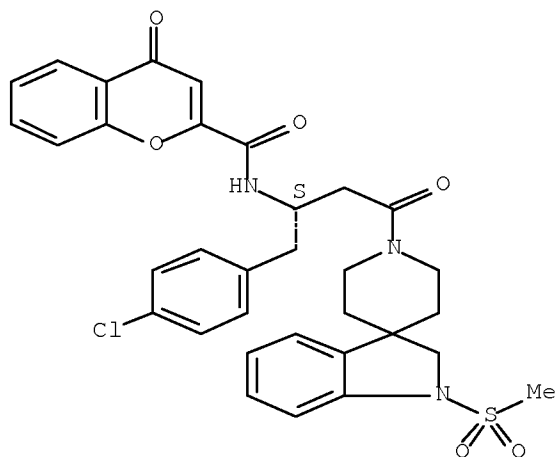   RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU
        (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES
        (Uses)
            (preparation of piperidine and piperazine amino acid derivs. as
            melanocortin-4 receptor modulators)
RN   756878-22-5 CAPLUS
CN   4H-1-Benzopyran-2-carboxamide, N-[(1S)-1-[(4-chlorophenyl)methyl]-3-[1,2-
        dihydro-1-(methylsulfonyl)spiro[3H-indole-3,4'-piperidin]-1'-yl]-3-
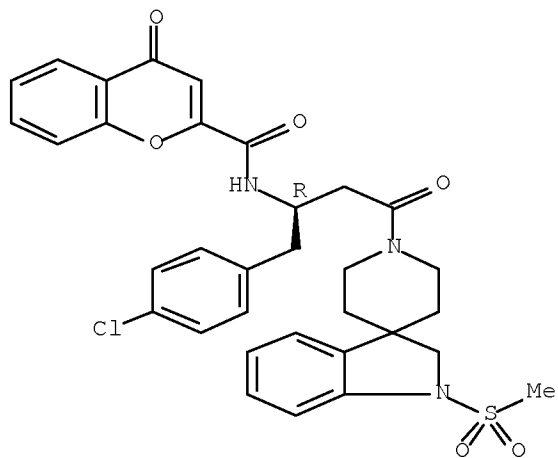   oxopropyl]-4-oxo- (CA INDEX NAME)

Absolute stereochemistry.

Absolute stereochemistry.

=> d his

     (FILE 'HOME' ENTERED AT 16:54:51 ON 04 MAR 2008)

     FILE 'REGISTRY' ENTERED AT 16:54:56 ON 04 MAR 2008
L1   STRUCTURE UPLOADED
L2   0 S L1 FULL
L3   STRUCTURE UPLOADED
L4   8 S L3 FULL

     FILE 'CAPLUS' ENTERED AT 16:57:43 ON 04 MAR 2008

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L5              1 S L4 FULL
L6                STRUCTURE UPLOADED
                  S L6


     FILE 'REGISTRY' ENTERED AT 16:59:49 ON 04 MAR 2008
L7              0 S L6 FULL


     FILE 'CAPLUS' ENTERED AT 16:59:50 ON 04 MAR 2008
L8              0 S L7 FULL
L9                STRUCTURE UPLOADED
                  S L9


     FILE 'REGISTRY' ENTERED AT 17:01:26 ON 04 MAR 2008
L10             0 S L9 FULL


     FILE 'CAPLUS' ENTERED AT 17:01:27 ON 04 MAR 2008
L11             0 S L10 FULL


     FILE 'REGISTRY' ENTERED AT 17:01:33 ON 04 MAR 2008


     FILE 'REGISTRY' ENTERED AT 17:02:36 ON 04 MAR 2008
L12               STRUCTURE UPLOADED
L13             2 S L12 FULL


     FILE 'CAPLUS' ENTERED AT 17:04:29 ON 04 MAR 2008
L14             1 S L13 FULL

=> log y
COST IN U.S. DOLLARS                       SINCE FILE      TOTAL
                                             ENTRY        SESSION
FULL ESTIMATED COST                           6.41        910.93

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)  SINCE FILE      TOTAL
                                             ENTRY        SESSION
CA SUBSCRIBER PRICE                          -0.80         -1.60

STN INTERNATIONAL LOGOFF AT 17:05:29 ON 04 MAR 2008
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